

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,446	04/04/2006	Hans Peter Loebl	DE030345	9662
24737	7590 10/17/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			AGUIRRECHEA, JAYDI A	
	P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
Did itobii i			2834	
			DATE MAILED: 10/17/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

 		Application No.	Applicant(s)			
Office Action Summary		10/574,446	LOEBL ET AL.			
		Examiner	Art Unit			
		Jaydi A. Aguirrechea	2834			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a soint of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 30 Se	entember 2006				
	This action is FINAL . 2b)⊠ This action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
-)⊠ Claim(s) <u>1-4</u> is/are rejected.					
	☐ Claim(s) is/are objected to.					
	8) Claim(s) are subjected to:					
	on Papers	,				
	·					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>04 April 2006</u> is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) M Notice of References Cited (RTC 202)						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>4/4/06</u> .	4)	ite			

Art Unit: 2834

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Mariani et al. (US 5325704)

Mariani discloses a sensor comprising a substrate (2) and at least one resonator, said resonator is comprised of an acoustic reflector (18, 20, 22, 24), a first and a second electrode (8), a piezoelectric layer (2), and a sensing layer (10, 12, 14, 16) wherein the first and the second electrode (8) are placed on the same side of the piezoelectric layer (2).

Regarding claim 2, the first and the second electrode (8) are interdigitated electrodes.

Regarding claim 3, the sensor comprises a plurality of individually addressable resonators (see abstract)

Regarding claim 4, the sensing layers of the different resonators comprise different materials. Mariani discloses that each thin film is capable of absorbing a different chemical substance.

2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim et al. (US 6293136)

Kim discloses a sensor comprising a substrate (212) and at least one resonator, said resonator is comprised of an acoustic reflector (222), a first and a second electrode (117, 117'), a

Art Unit: 2834

piezoelectric layer (212), and a sensing layer (324) wherein the first and the second electrode are placed on the same side of the piezoelectric layer.

Regarding claim 2, the first and the second electrode are interdigitated electrodes.

Regarding claim 3, the sensor comprises a plurality of individually addressable resonator.

Regarding claim 4, the sensing layers of the different resonators comprise different materials. In the description of figure 3, Kim discloses that the coatings are selected such that particular species to be measured are absorbed by the coating, by changing the acoustic properties of the SAW device. It is inherent that different coatings could be used in a single embodiment to detect more than one substance.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 571-272-2018. The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/574,446 Page 4

Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

10/16/06

Jaydi Aguirrechea Patent Examiner